outward at a vertex portion by a distance d, subsequently extends toward the second slot 52 circumferentially at a reverse angle of inclination θ , and is linked to a third rectilinear portion $\mathbf{10}c$ in a seventh layer from the slot opening side of the second slot 52. Next, a third coil end portion $\mathbf{10}g$ that extends outward at the second axial end from the third rectilinear portion $\mathbf{10}c$ in the seventh layer from the slot opening side of the second slot 52 extends toward the third slot 53 circumferentially at an angle of inclination θ , is shifted radially outward at a vertex portion by a distance d, subsequently extends toward the third slot 53 circumferentially at a reverse angle of inclination θ , and is linked to a fourth rectilinear portion $\mathbf{10}d$ in an eighth layer (a radially outermost position) from the slot opening side of the third slot 53.

[0043] Thus, the first rectilinear portion 10a in the first layer of the second slot 52 and the second rectilinear portion 10b in the second layer of the first slot 51 are linked by the first coil end portion 10e, the second rectilinear portion 10b in the second layer of the first slot 51 and the third rectilinear portion 10c in the third layer of the second slot 52 are linked by the second coil end portion 10f, and the third rectilinear portion 10c in the third layer of the second slot 52 and the fourth rectilinear portion 10d in the fourth layer of the third slot 53 are linked by the third coil end portion 10g, to constitute a 6-shaped coil pattern.

[0044] In addition, the first rectilinear portion 10a in the fifth layer of the second slot 52 and the second rectilinear portion 10b in the sixth layer of the first slot 51 are linked by the first coil end portion 10e, the second rectilinear portion 10b in the sixth layer of the first slot 51 and the third rectilinear portion 10c in the seventh layer of the first slot 51 are linked by the second coil end portion 10f, and the third rectilinear portion 10c in the seventh layer of the second slot 52 and the fourth rectilinear portion 10d in the eighth layer of the third slot 53 are linked by the third coil end portion 10g, to constitute a 6-shaped coil pattern.

[0045] Thus, a winding body 10 is configured by winding a conductor wire 9 into a first slot 51, a second slot 52, and a third slot 53 that line up at an angular pitch of six slots circumferentially, so as to repeat for two iterations in a radial direction a 6-shaped coil pattern that is formed by inserting the conductor wire 9 sequentially in order of the second slot 52, the first slot 51, the second slot 52, and the third slot 53 so as to alternate an axial direction of insertion into the first slot 51, the second slot 52, and the third slot 53.

[0046] The winding body 10 is configured by linking the two 6-shaped coil patterns using a linking wire 11 so as to be arranged into two layers in a radial direction. In other words, the winding body 10 is produced by winding the conductor wire 9 in such a way that the two 6-shaped coil patterns become continuous.

[0047] A single winding body 10 is similarly mounted into a second slot 52, a third slot 53, and a fourth slot 54 that line up at an angular pitch of six slots circumferentially. This winding body 10 is configured such that a conductor wire 9 is wound so as to repeat for two iterations in a radial direction a 6-shaped coil pattern that is formed by inserting the conductor wire 9 sequentially in order of the third slot 53, the second slot 52, the third slot 53, and the fourth slot 54 so as to alternate an axial direction of insertion into the second slot 52, the third slot 53, and the fourth slot 54.

[0048] A single winding body 10 is similarly mounted into a third slot 53, a fourth slot 54, and a fifth slot 55 that line

up at an angular pitch of six slots circumferentially. This winding body 10 is configured such that a conductor wire 9 is wound so as to repeat for two iterations in a radial direction a 6-shaped coil pattern that is formed by inserting the conductor wire 9 sequentially in order of the fourth slot 54, the third slot 53, the fourth slot 54, and the fifth slot 55 so as to alternate an axial direction of insertion into the third slot 53, the fourth slot 54, and the fifth slot 55.

[0049] Thus, the three winding bodies 10 are mounted to the stator core 3 so as to share the third slot 53. Eight first through fourth rectilinear portions 10a, 10b, 10c, and 10d are housed inside the third slot 53 such that the longitudinal directions of the long sides of the oblong cross sections of the conductor wires 9 are oriented circumferentially so as to line up in single columns in a radial direction.

[0050] Forty-eight winding bodies 10 that are configured in this manner are arranged concentrically at a pitch of one slot to produce the winding assembly 7 that is shown in FIG. 8. At a second axial end of the winding assembly 7, a layer of first coil end portions 10e in which the first coil end portions 10e are arranged circumferentially at a pitch of one slot and a layer of third coil end portions 10g in which the third coil end portions 10g are arranged circumferentially at a pitch of one slot are arranged alternately in four layers in a radial direction to constitute first coil ends 6a. At a first axial end of the winding assembly 7, a layer of second coil end portions 10f in which the second coil end portions 10f are arranged circumferentially at a pitch of one slot and a layer of linking wires 11 in which the linking wires 11 are arranged circumferentially at a pitch of one slot are arranged alternately in three layers in a radial direction to constitute second coil ends 6b. Moreover, insulating papers 19 are disposed inside the first and second coil ends 6a and 6b to ensure electrical insulation between the winding bodies 10.

[0051] End portions of the first terminal wires 10h each extend axially outward from a radially inner side of the second coil ends 6b, and are arranged circumferentially at a pitch of one slot, and end portions of the second terminal wires 10i each extend outward in an axial direction that is identical to that of the first terminal wires 10h from a radially outer side of the second coil ends 6b, and are arranged circumferentially at a pitch of one slot.

[0052] Shapes of the first and second terminal wires 10hand 10i of the winding bodies 10 will now be explained using FIGS. 3 through 6. The first terminal wires 10h that extend outward near the second coil ends 6b from the first rectilinear portions 10a in the first layer of the second slots 52 are formed so as to extend toward the first slots 51 circumferentially at an angle of inclination θ and be bent at vertex portions (intermediate positions between the first slots 51 and the second slots 52) to extend axially outward. The second terminal wires 10i that extend outward near the second coil ends 6b from the fourth rectilinear portions 10d in the eighth layer of the third slots 53 are formed so as to extend toward the fourth slots 54 circumferentially at an angle of inclination 0 and be bent at vertex portions (intermediate positions between the third slots 53 and the fourth slots **54**) to extend axially outward.

[0053] Thus, the circumferential positions of the end portions of the second terminal wires 10i that protrude axially outward from the winding bodies 10 in which the first rectilinear portions 10a are housed in the second slots 52 align approximately with the circumferential positions of the end portions of the first terminal wires 10h that protrude